

Instrument Name	Abbreviation	Type	Wavelength / energy range	Spatial resolution	Spectral Resolution	Temporal resolution	Development status	Enhancing / enabling
UV Vector Magnetograph	UVM	Imaging VM +Spectraph	155 to 300 nm	0.05"	30 mÅ	10-100 s	Prototype in development	
IR Vector Magnetograph	IRVM	Imaging VM +Spectraph	600-900 nm	0.05"	30 mÅ	1-10 s	Large array, deep well CCDs needed	Enhancing
High throughput, high resolution UV spectrograph	HTUVS	Slit spectrograph	UV	0.1" Goal	1km/s goal	1s/exposure	Gratings, active pixel sensors	Enhancing
High throughput, high resolution EUV spectrograph	HTEUVS	Slit spectrograph	EUV	0.1" Goal	5km/s goal	1s/exposure	Gratings, active pixel sensors	Enhancing
High resolution narrow band imagers	HRNBI	imaging	EUV	0.01" Goal		10 s Goal	Image stabilization	Enabling
X-Ray High Resolution Imaging Spectroscopy	XHRIS	Imaging spectrograph	X-Ray: 1.4 - 20 Angst	1" Goal	0.001 Angst	1 s Goal	x-ray optics and detectors	Enabling
X-Ray image spectroscopy	XRIS	micro-calorimeter	X-Ray-EUV 10KeV to 0.1keV	1"	2 eV Goal	<10 ms (photon counting)	large array sizes; small pixel sizes; High count rates	Enabling
Hard X-Ray image spectroscopy	HXIS	micro-calorimeter	Hard X-Rays 5-30KeV	5-20"	50 eV	<10 ms (photon counting)	large array sizes; small pixel sizes; hard x-ray focusing optics; High count rates	Enabling
Gamma ray	GR	Imaging spectrometer	0.3-10mev	10"	few kev	photon counting	RHESSI	
Neutron imager	NI	double scatter telescope	10-200MeV	5x5degress	e/de ~2	30s	Exist; lifetime decay implies near sun SC	
Particle detectors	Particle							
Large Aperture EUV Coronagraphs Spectrometer	LA/UVCS	Wide FOV (1.15-10R) UVCS	29-135nm	4"	0.003-0.009nm	25s	2 MIDEX Phase A's completed	
Larg Area Visible Light Coronagraph	LA/VLC	Imaging & Polarimetry	450-600nm	2"x2"; 2"x16" @ 1.15 R_sun	0.6-90nm	1 s pol. Exposures; 3 per 15 s	2 MIDEX Phase A's completed	
Compact WL Coronagraphs	WLC	imaging	WL					
MgII Irradiance Monitor	MG2	Spectrograph	2800A	None	<1A	minutes		
Out-of-ecliptic EUV Monitor	HEUV	Spectrograph	10-500A	None	1A	minutes	lightweight, solar sails?	
Solar G-Mode Monitor	GMM	filter	1.6um	None	None		S/N increase by 10-100 over GOLF	
Out-of-ecliptic TSI Monitor	HTSI	radiometer	2000-200,000A	None	None	minutes	light wieght < 4kg, solar sails?	
Heliospheric Imagers	HIMs	imaging	WL, UV, IR	15' - 1 deg		10-30min	WL prototype, UV & IR in Concept Stage	
Diffuse EUV Spectrometer	DEUS	Multi-slit spectrometer	26-34nm	5x5 deg	0.005nm	1000-1000s/pixel	low intrinsic noise MCPs; diffraction gratings	Enhancing
Radio receivers	Radio		Radio 1kHz - 100 MHz					
ENA Low	ENA-L	surface conversion	50ev-1kev per nucleon	1x1	E/(Delta E) ~ 1	hours/image	IMAGE LENA Phase A/IBEX low	
ENA Medium	ENA-M	foil conversion	300ev-5kev	3x3	E/(Delta E) ~ 3	days/image	Phase A/IBEX high	
ENA High	ENA-H	MCP	5-200kev	3x3	E/(Delta E) ~ 5	weeks	EUV Suppression	Enabling
Stellar Imager	SI	Interferometer	UV/optical	0.1 milliarcsec	10 Angstrom	6 hours	formation flying, micro-thrusters, metrology, wave-front control	